

XVI INTERNATIONAL GEOLOGICAL CONGRESS

GUIDEBOOK 30 - - - { EXCURSIONS A-2, A-6,
C-1, C-2, C-3, C-4

THE BALTIMORE & OHIO
RAILROAD

MAPS

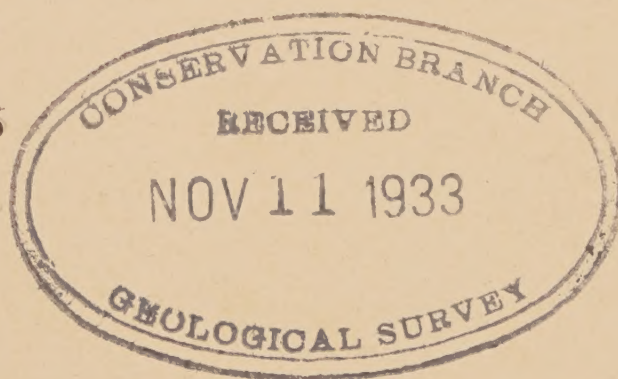
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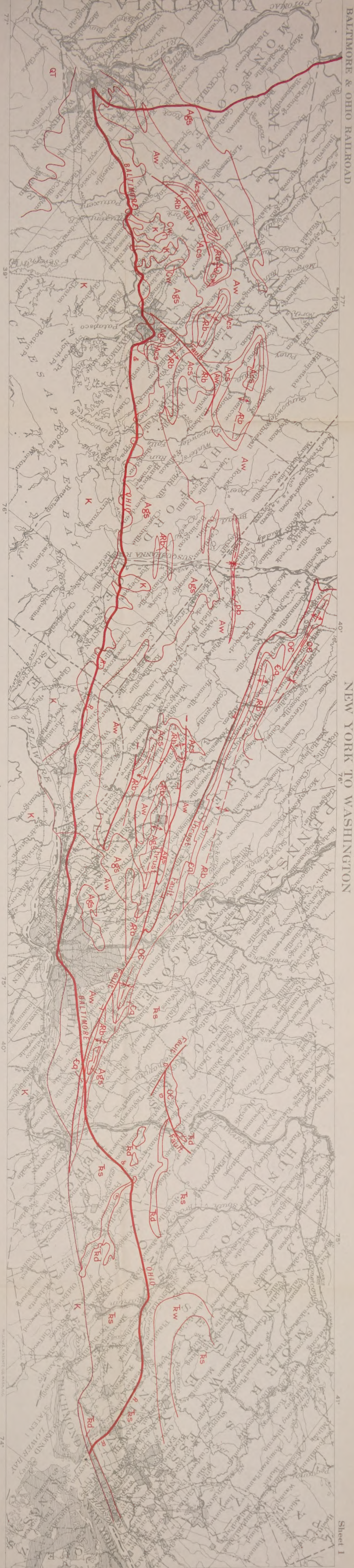
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Science





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LANATION

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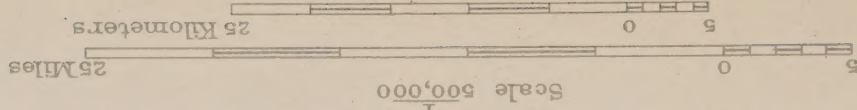
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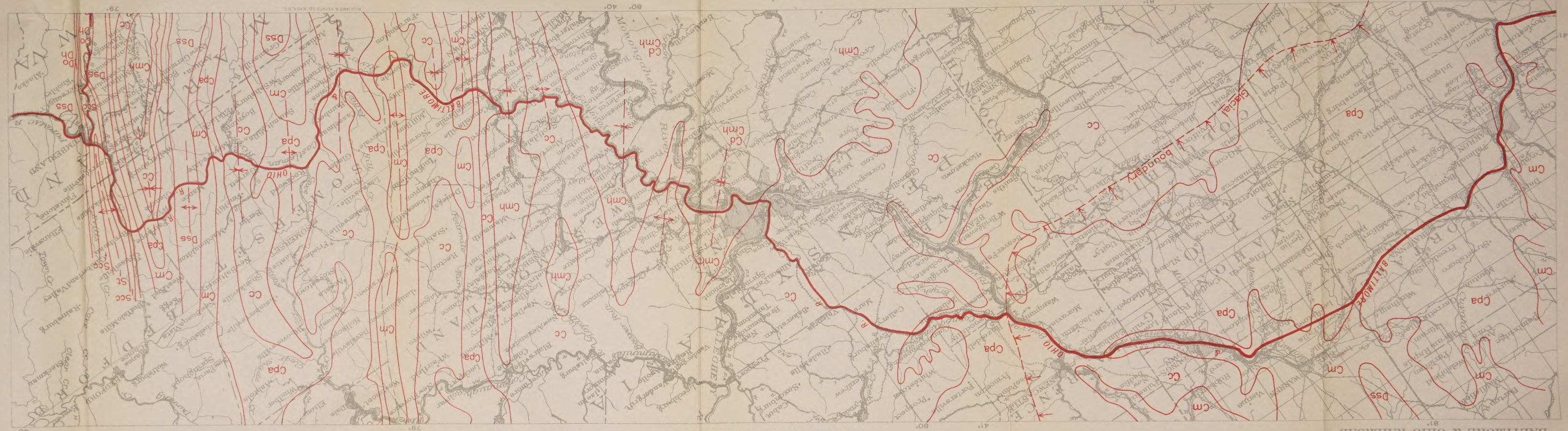


EXPLANATION

The diagram illustrates a geological column with the following units and features:

- Scale:** 500,000
- Structural Features:**
 - Axis of anticline (indicated by a downward arrow)
 - Axis of syncline (indicated by an upward arrow)
 - Fault T, Thrust fault (D, Downthrow side)
- Geological Column:**
 - ORDOVICIAN:**
 - 01: Ordovician limestone
 - Om: Martinsburg shale
 - St-0j: Tuscarora quartzite and Juniata formation
 - SILURIAN:**
 - Sc: Clinton formation
 - Scy: Cayuga group
 - DEVONIAN:**
 - Dh: Helderberg limestone
 - Do: Oriskany group
 - Djr: Jennings and Romey formations
 - Dck: Catskill formation
 - CARBONIFEROUS:**
 - Cp: Pocono group
 - TRIASSIC:**
 - Rn: Newark group
 - CRETACEOUS:**
 - Kp: Potomac group
 - Lower Cretaceous:**
 - Upper Triassic
 - CAMBRIAN:**
 - Eh: Antietam sandstone
 - Ewl: Weverton quartzite and Granite
 - Ag: Gabbro, etc.
 - Aw: Missaschickon schist
 - Ac: Catoclin schist (basalt flows) and Setters marble
 - Acs: Cockeysville marble
 - ALBONKIAN (?)**
 - Lower Cambrian:**
 - E1: Cambrian limestone and Harpers shale





- EXPLANATION**
- PERMIAN**
- Cd Dunkard group
 - Cmh Monongahela formation
 - Cc Conemaugh formation
 - Cpa Allegheny and Pottsville formations
 - Cm Shales and sandstones (include many quarry rocks)
- PENNSYLVANIAN**
- Dss Post-Oriskany shales and sandstones
 - Do Oriskany group
 - Dh Helderberg limestone
 - Scs Cayuga group and Clinton formation
 - St Tuscarora quartzite
- DEVONIAN**
- Axis of anticline
 - Axis of syncline
- SILURIAN**



QUATERNARY

Qa

Alluvium

Recent

CARBONIFEROUS

Cd

Dunkard group

Permian (coal-bearing)

Cmh

Monongahela formation

Pennsylvanian (coal-bearing)

Cc

Conemaugh formation

Cpa

Allegheny and Pottsville formations

Cm

Mauch Chunk shale, Greenbrier limestone, and Pocono sandstone

Mississippian

EXPLANATION

Dck

Catskill formation

Middle and Upper Devonian

Ds

Chiefly shale

DEVONIAN

Do

Oriskany group

Lower Devonian

Dh

Helderberg limestone

SILURIAN

Scc

Cayuga group and Clinton formation

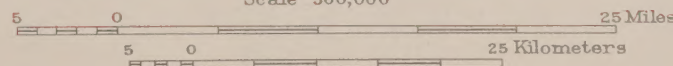
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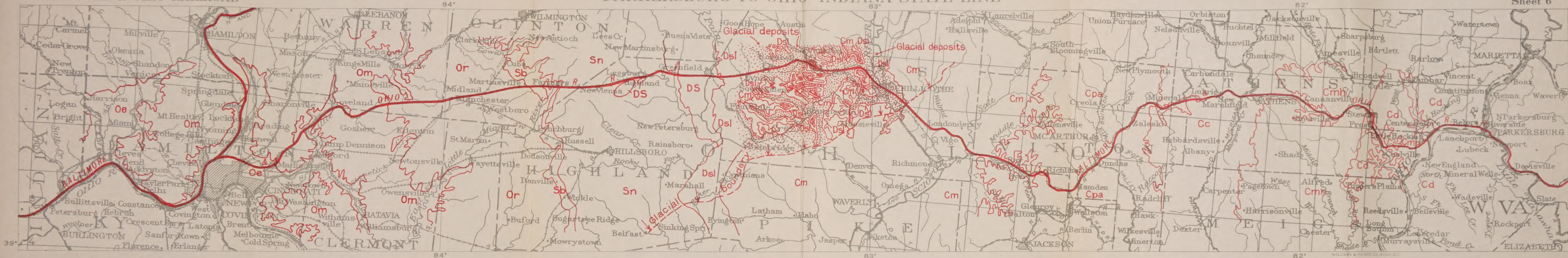
Tuscarora quartzite

Axis of anticline

Axis of syncline

Scale 500,000





EXPLANATION

CARBONIFEROUS					DEVONIAN		SILURIAN		ORDOVICIAN		
Cd	Cmh	Cc	Cpa	Cm	Dsl	DS	Sn	Sb	Or	Om	Oe
Dunkard group	Monongahela formation	Conemaugh formation	Allegheny and Pottsville formations	Shales and sandstones (include quarry stones)	Shales and limestones	Limestones of Helderberg (Lower Devonian) and Cayuga (late Silurian) age	Limestones of Niagara age	Brassfield limestone (so-called Clinton limestone of early reports)	Richmond group (shales and limestones)	Maysville group (shales and limestones)	Eden group
Permian (coal-bearing)	Pennsylvanian (coal-bearing)		Mississippian		Upper and Middle Devonian				Upper Ordovician		

